MITSUBISHI ELECTRIC

HOME-CINEMA TELEVISION

MODELS

738 Series
838 Series

BASIC OWNER'S GUIDE

This manual provides basic connection, setup, and operating instructions. Please visit our website at www.Mitsubishi-tv.com to view or download a detailed owner's guide that fully describes the features of this TV. Follow the Support link to the Product Documents page.

- For questions:
  - Visit our website at www.mitsubishi-tv.com.
  - E-mail us at MDEAservice@mdea.com.
  - Call Consumer Relations at 800-332-2119 for operational or connection assistance.
- For information on **System Reset**, please see the back cover.
- To order replacement or additional remote controls, visit our website at www.mitsuparts.com or call 800-553-7278.
- **838 Series.** IR emitter cables for NetCommand home-theater control are available for purchase from Mitsubishi. Call 800-553-7278 and request either part number 242D483020 (two-ended cable) or part number 299P254020 (four-ended cable).

PICTURE BY DLP TEXAS INSTRUMENTS

HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE

StreamTV™ INTERNET MEDIA

3D TELEVISION

6COLOR PROCESSOR

NET Command WITH IR LEARNING

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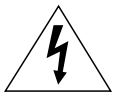
CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user of the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

MAINS DISCONNECTION: The mains plug is used as the disconnect device. The mains plug shall remain readily operable.

Stand Requirement

CAUTION: Use these Mitsubishi TV models only with the Mitsubishi stand models shown here. Other stands can result in instability and possibly cause injury.

TV Model	Stand Model
WD-60738, WD-65738 WD-65838	MB-S60/65A
WD-73738 WD-73838	MB-S73A

82-inch TVs. Mitsubishi does not design, manufacture, or sell matching bases for 82-inch televisions (WD-82738, WD-82838). When selecting a stand, base, or other furniture to support the TV, please make sure it is designed with the appropriate dimensions for stability and to support the TV's total weight as well as the weight of any additional equipment you plan to store.

TV WEIGHT: This TV is heavy. Exercise extreme care when lifting or moving it. Lift or move the TV with a minimum of two adults. To prevent damage to the TV, avoid jarring or moving it while it is turned on. Always power off your TV, unplug the power cord, and disconnect all cables before moving it.

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

This apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

FCC Declaration of Conformity

Product:	Projection Television Receiver
Models:	WD-60738, WD-65738, WD-73738, WD-82738 WD-65838, WD-73838, WD-82838
Responsible Party:	Mitsubishi Digital Electronics America, Inc. 9351 Jeronimo Road Irvine, CA 92618-1904
Telephone:	(800) 332-2119

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) This device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by Mitsubishi could cause harmful interference and would void the user's authority to operate this equipment.

WARNING: This product contains chemicals known to the State of California to cause cancer and/or birth defects or other reproductive harm.

Note: Features and specifications described in this owner's guide are subject to change without notice.

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For Your Records

Record the model number, serial number, and purchase date of your TV. The model and serial numbers are on the back of the TV. Refer to this page when requesting assistance with the TV.

MODEL NUMBER _____
SERIAL NUMBER _____
PURCHASE DATE _____
RETAILER NAME _____
LOCATION _____

Custom cabinet installation must allow for proper air circulation around the television.

NOTE TO CATV SYSTEM INSTALLER: THIS REMINDER IS PROVIDED TO CALL THE CATV SYSTEM INSTALLER'S ATTENTION TO ARTICLE 820-40 OF THE NEC THAT PROVIDES GUIDELINES FOR THE PROPER GROUNDING AND, IN PARTICULAR, SPECIFIES THAT THE CABLE GROUND SHALL BE CONNECTED TO THE GROUNDING SYSTEM OF THE BUILDING, AS CLOSE TO THE POINT OF CABLE ENTRY AS PRACTICAL.

Internal Fans

Internal cooling fans maintain proper operating temperatures inside the TV. It is normal to hear the fans when you first turn on the TV, during quiet scenes while viewing the TV, and for a short time after shutting off the TV. You may notice louder fan noise about 30 seconds after shutting off the TV and while using the **Bright** Lamp Energy setting.

Lamp Replacement

For lamp-replacement instructions, see Appendix A.

To Order a Replacement Lamp Under Warranty

Call (800) 553-7278. Please have model number, serial number, and TV purchase date available.

Important: All lamps replaced under warranty must be returned to Mitsubishi where they will be inspected to verify failure defects.

To Purchase a Replacement Lamp After Warranty

Visit our website at www.mitsuparts.com or call (800) 553-7278. Order new lamp part number **915B441001**.

TV Software

Do not attempt to update the software of this TV with software or USB drives not provided by or authorized by Mitsubishi Digital Electronics America, Inc. Non-authorized software may damage the TV and will not be covered by the warranty.

Children and TV Viewing

The American Academy of Pediatrics discourages television viewing for children younger than two years of age.

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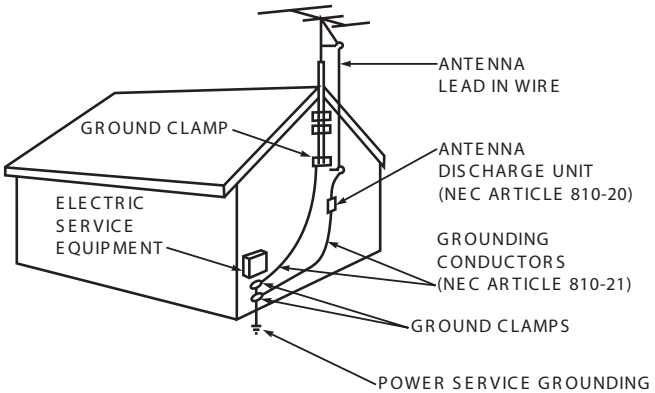
Important Safety Instructions

Please read the following safeguards for your TV and retain for future reference. Always follow all warnings and instructions marked on the television.

1) Read these instructions.
2) Keep these instructions.
3) Heed all warnings.
4) Follow all instructions.
5) Do not use this apparatus near water.
6) Clean only with dry cloth.
7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11) Only use attachments/accessories specified by the manufacturer.
12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13) Unplug this apparatus during lightning storms or when unused for long periods of time.
14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

EXAMPLE OF ANTENNA GROUNDING


ANTENNA LEAD IN WIRE
GROUND CLAMP
ANTENNA DISCHARGE UNIT (NEC ARTICLE 810-20)
ELECTRIC SERVICE EQUIPMENT
GROUNDING CONDUCTORS (NEC ARTICLE 810-21)
GROUND CLAMPS
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)

NEC — NATIONAL ELECTRICAL CODE

Outdoor Antenna Grounding

If an outside antenna or cable system is connected to the TV, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges.

Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

The following TV models are ENERGY STAR® qualified:
WD-65738, WD-73738, WD-82738
WD-65838, WD-73838, WD-82838

Products that earn the ENERGY STAR prevent greenhouse gas emissions by meeting strict energy efficiency guidelines set by the U.S. Environmental Protection Agency and the U.S. Department of Energy.

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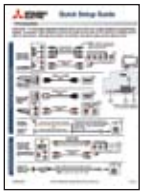
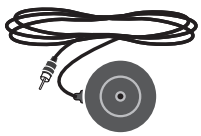
1 Basic Setup and Operation

Package Contents

Please take a moment to review the following list of items to ensure that you have received everything.

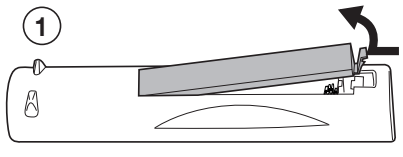
Remote Control	
Two AA Batteries	
Basic Owner's Guide	
HDTV Quick Setup Guide	
Product Registration Card	
838 Series. Calibration Microphone	

Before You Begin

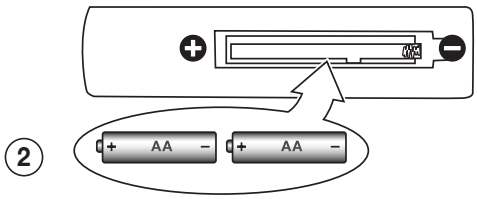
1. Review the important safety, installation, and operating information at the beginning of this book.
2. Choose a location for your TV.
   - Allow at least four inches of space on all sides of the TV to help prevent overheating. Overheating may cause premature failure of the TV as well as shortened lamp life.
   - Avoid locations where light may reflect off the screen.
   - See the stand requirements on page 2.
3. Install the batteries in the remote control.
4. Plug the TV into an AC power outlet.

Installing the Remote Control Batteries

1. Remove the remote control's back cover by gently pressing in the tab and lifting off the cover.
2. Load the batteries, making sure the polarities (+) and (-) are correct. For best results, insert the negative (-) end first.
3. Snap the cover back in place.

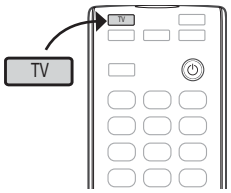


The remote control requires two AA batteries.

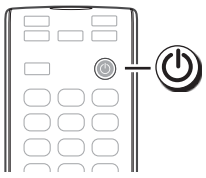


First-Time Power-On

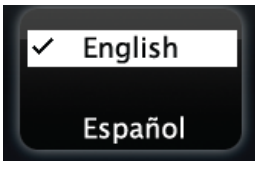
1. Press the **TV** key to ensure that the remote control is in **TV** mode.



2. Aim the emitter (bulb) end of the remote control at the TV and press the **POWER** key ⏻. Wait for the ***Welcome*** screen.



3. If you wish to change the menu language to **Español**, press ▼.



4. Press ▶ to highlight **EXIT**. Press **ENTER** to clear the menu.

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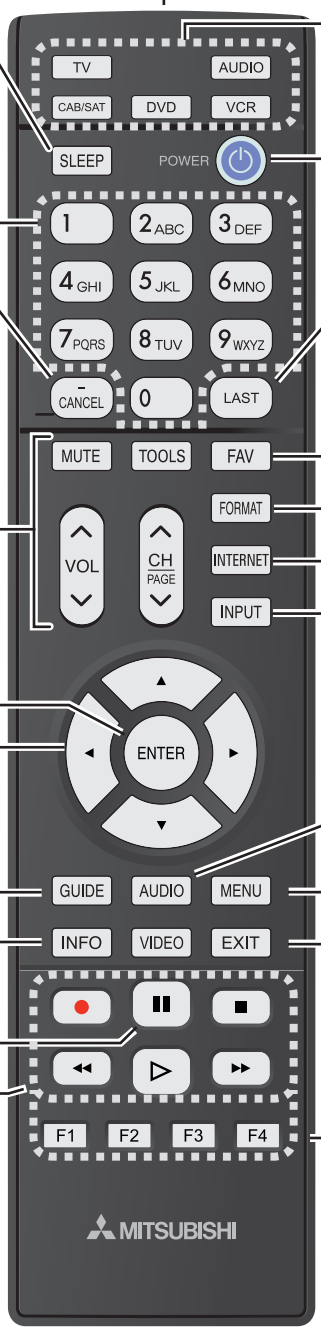
Remote Control



Emitter End

Sleep Timer

TV CAB/SAT DVD AUDIO VCR
Press the key for the device type to control. Leave in TV mode for normal TV viewing.

Number/letter keys
Channel tuning, page 8
Pass code entry, page 26

Powers TV on or off.

CANCEL — Adds a separator in digital channel numbers. Clears some menu entries.

LAST — Returns to the previous channel.

MUTE — Mutes the TV speakers.

TOOLS — Displays shortcuts for the number keys. Press to check if shortcuts are available for the current device.

VOL — Controls volume of TV speakers.

CH PAGE — Changes channels; moves to another page in a menu or list.

FAV — Displays up to nine favorite sources. See page 14.

FORMAT — Changes picture shape, page 14

INTERNET — Connects to internet content provided by VUDU$_{TM}$. See page 19.

INPUT — Press to select a TV input. See page 8.

ENTER — Selects a channel number or menu item.

▲▼◀▶ — Navigation and adjustment controls

AUDIO — Audio adjustments, page 22

VIDEO — Video adjustments, page 21

GUIDE — ChannelView listings, page 15.

INFO — TV status or TV help.

MENU — Displays or clears the TV main menu (page 21). Also steps back one menu.

EXIT — Clears all menus.

(PAUSE) — **(PAUSE)** Freezes a broadcast TV picture.

Record/Playback controls for external devices. Additional setup is required.

838 Series. Special keys for use with NetCommand IR control. See the detailed owner's guide at www.mitsubishi-tv.com.

The TV's remote control can operate other audio/video devices using any of these methods:

- Program the remote control for the device (page 30).
- Set up HDMI Control for HDMI devices compatible with the TV.
- **838 Series.** Perform NetCommand setup for device keys.

See the detailed owner's guide at www.mitsubishi-tv.com for information.

If You Turn Off the TV by Mistake

- Press **POWER** again, within about 60 seconds, to have the TV come back on immediately.
- If the **STATUS** indicator is green and blinking rapidly, (about 60 seconds after you shut off power), wait a few moments for the indicator to stop blinking and press **POWER** to turn the TV on again.

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The STATUS Indicator

Key ○ Off ● Steady On ◐ Slow Blinking ◎ Fast Blinking

LED Color	TV Condition
None ○	**TV is powered off.** Normal operation.
Green ●	**TV is powered on.** Normal operation.
Green ◐	**TV powered off, auto-on TV Timer is set.** Normal operation. TV can be turned on at any time.
Green ◎	**TV just powered off and lamp is cooling.** Sixty seconds after turning off TV, LED will start to blink. TV can be turned back on before blinking starts or after blinking stops, but not while the indicator is blinking. Normal operation.
Yellow ●	**TV is too hot.** The TV will display a warning message and shut off if it overheats. • Ambient room temperature may be too high. Turn off the TV and let the room temperature drop. • Clear blocked air vents. Ensure at least a four-inch clearance on all sides of the TV.
Yellow ◐	**Lamp access door is not secure or no lamp installed.** TV will not operate until lamp access door is secured. See Appendix A.
Red ●	**Lamp failure.** Replace the lamp. See Appendix A.
Red/ Yellow ◐	**TV may require service.** • Hold power button on front panel for 10 seconds to reset TV. • If LED continues to flash red and yellow after reset, turn off the TV and unplug it from the AC power source. Wait one minute and then plug the set back in. • If LED continues to flash red and yellow, go to www.mitsubishi-tv.com or call 1-800-332-2119 to receive Authorized Service Center information. You may be asked to count how many times the LED flashes each color to aid in troubleshooting.

Setting Up and Using TV Inputs

Using the ANT (Antenna) Input

If using an antenna or direct cable service (no cable box), connect the incoming coaxial cable to the TV's **ANT** input. Refer to page 12.

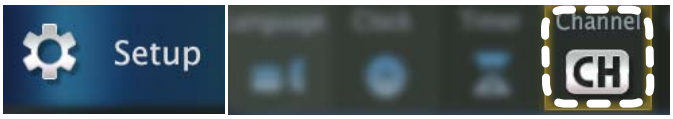
You must perform a channel scan to enable reception of digital channels. If you skip this step, the TV will receive only analog channels. The channel scan will search for high-definition and standard-definition channels available in the local area.

Memorizing Channels with Channel Scan

For the ANT input

To start channel memorization

1. Power on the TV.
2. Press **MENU** and open the ***Setup > Channel*** menu.
   First press ▼ to navigate to the Setup icon, then use ▶ to highlight the Channel icon.



Start channel memorization from the Setup > Channel menu.

3. Press ▼ to enter the menu.
4. Highlight **Ant Air** if connected to an over-the-air antenna. Highlight **Ant Cable** for service over direct cable (no cable box). Press **ENTER** to add a check.

5. For first-time setup, highlight **All channels**. To scan for channels not already in memory, highlight **New only**. Press **ENTER** to add a check.

6. Highlight **Scan** and press **ENTER**. Channel memorization may take up to 15 minutes to complete.

To stop channel memorization before completion, press CANCEL.

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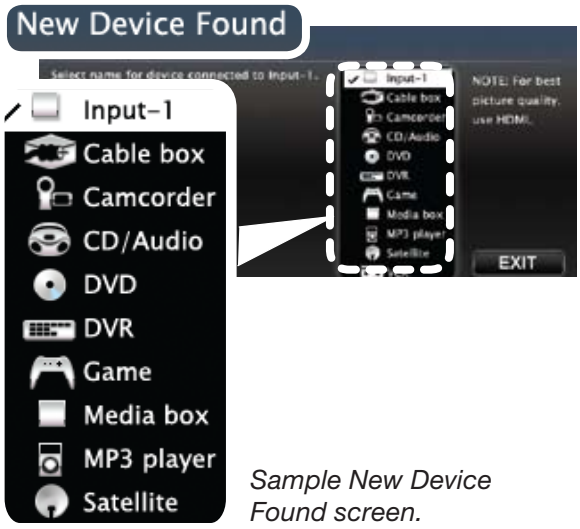
Setting Up and Using TV Inputs, continued

Setting Up Other Inputs

1. Power on the TV.
2. Power on the devices to ensure detection.
3. Connect one device to the TV, making note of the TV input jack.

   The TV will display the ***New Device Found*** screen if the connection type is detectable.
4. Highlight the device type in the on-screen list and press **ENTER**. The name you select here will appear in the ***Input Selection*** menu.



Sample New Device Found screen.

5. Press **EXIT** to close the ***New Device Found*** screen.
6. Repeat steps 3 through 5 for each additional device you want to add.

About Auto Input Sensing

This TV's Easy Connect™ Auto Input Sensing feature detects most input connections automatically. Some exceptions are:

- A connection on the **ANT** input
- TV audio outputs (analog and digital)
- An HDMI-equipped device that is powered off. Power on the device first to ensure detection.
- Ethernet

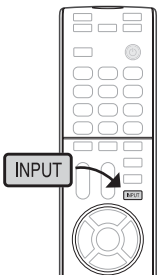
Auto Input Sensing for Most Devices

When you first connect a device, the TV will:

a. Detect the connected device and automatically switch to it.
b. Prompt you to identify the device type.
c. Repeat these steps for other newly detected devices.

Selecting an Input to Watch

1. Press **INPUT**.



Sample Input Selection menu, antenna input selected

2. Press ◀ ▶ to highlight an input icon.
3. Press **ENTER** to switch to the input.

Tuning to Channels on the Antenna Input

- Enter the channel number using the number keys on the remote control and press **ENTER**.
- For a two-part digital channel, such as 3-1, press **3** CANCEL.
- Press **CH** ∧/∨ to change channels one channel at a time.
- Press and hold **CH** ∧/∨ to speed through channels.
- Press LAST to return to the previous channel.
- Use the Fav (Favorites) feature to tune to up to nine favorite channels. See page 14.
- Press **GUIDE** to display ChannelView channel listings, highlight a channel number, and press **ENTER** to tune.

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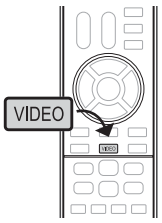
Basic TV Operation

Picture Settings

1. To get the best picture under different viewing conditions, set the Picture Mode first before changing other video settings. See page 21 for a description of the options.

   a. Press **VIDEO**.

   b. Press ▼ until the **Picture Mode** option displays.



   c. Press ▶ to make one of these selections:

Name	When to Use
Brilliant	Under bright light
Game	With gaming consoles (inputs named **Game** or **PC** only)
Bright	For most daytime viewing
Natural	For most nighttime viewing
Cinema	For recreating theater colors

2. Press ▼ to display the name of another adjustment.
3. Press ◀ ▶ to make the adjustment.
4. Wait a few seconds and the display will clear.

Additional picture options are available through the following menus:

Menu	Page
Picture > Picture Plus	21
Picture > Perfect (838 series)	22
Picture > 3D Mode	16

Audio Controls

Changing the Audio Output

To switch from the internal TV speakers to an external sound system:

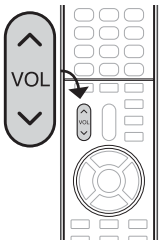
1. Press **AUDIO**.
2. Press ▼ to display the **TV Speakers** option.
3. Press ◀ ▶ to change.

Changing Audio Settings (TV Speakers Only)

1. Press **AUDIO**.
2. Press ▲ to display the name of the adjustment you want. See page 22 for descriptions.
3. Press ▶ to change.

Controlling Sound Volume

- Press **VOL** ∧/∨ to adjust the sound level of the TV speakers.
- See the full owner's guide at www.mitsubishi-tv.com for methods of controlling A/V receiver volume.



More TV Features

Features covered in this Basic Owner's Guide include:

Feature	Page
Parental controls (***Lock*** menu)	26
TV Clock. Set the TV Clock if you plan to use the TV Timer (page 24) or ChannelView (page 15).	24
Favorite sources	14
ChannelView and custom channel collections	15
Changing the input names that appear in the ***Input Selection*** menu (***Inputs*** > ***Name*** menu)	25
3D Video	16
Internet video streaming with VUDU	19
Digital camera images as composite video	15
838 Series. Listening to a wireless audio device with the TV speakers	20

See the detailed Owner's Guide at www.mitsubishi-tv.com for more on the features described here and to learn about other features, including:

- HDMI control (CEC) of other A/V devices
- **838 Series.** NetCommand IR control of other A/V devices. Use of NetCommand requires purchase of IR emitter cables available from Mitsubishi.
- **838 Series.** Center and rear channel audio output
- **838 Series.** Using an external subwoofer.
- **838 Series.** Viewing photo files from a USB device.

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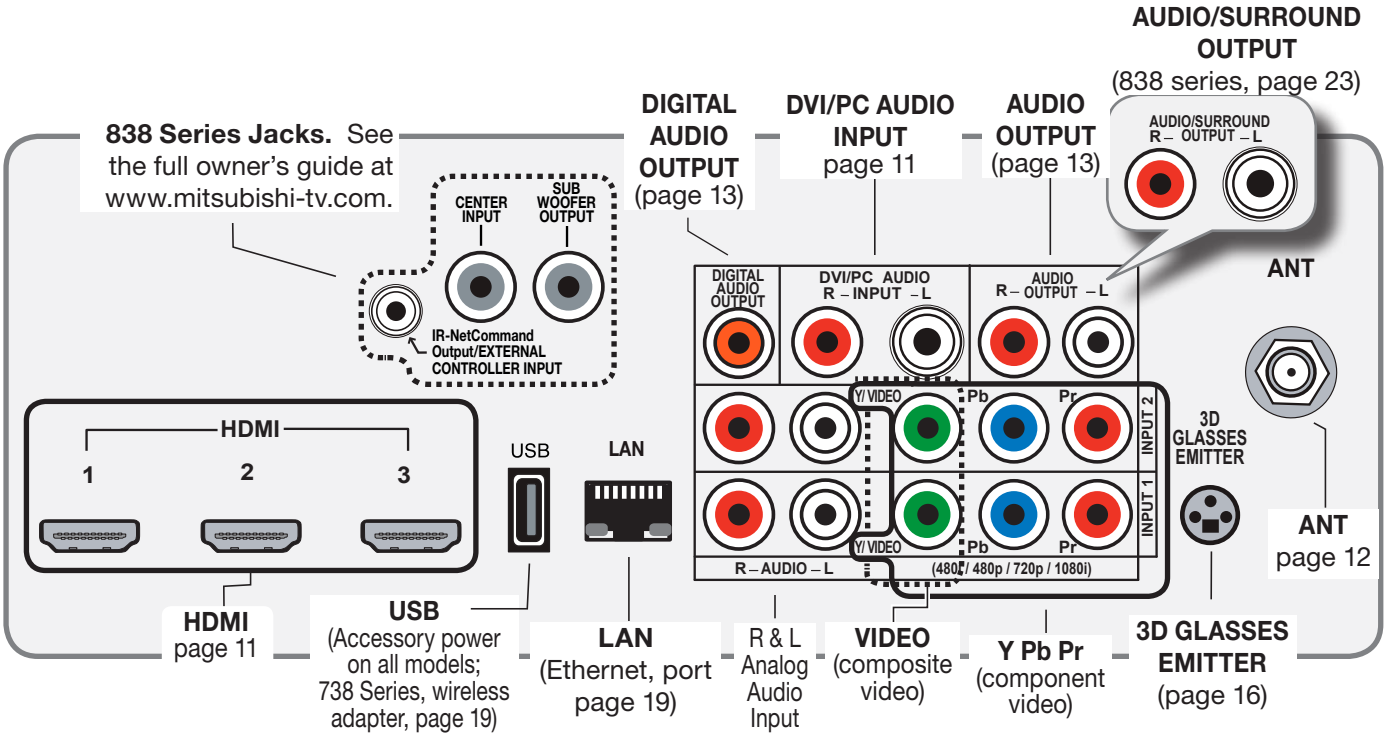
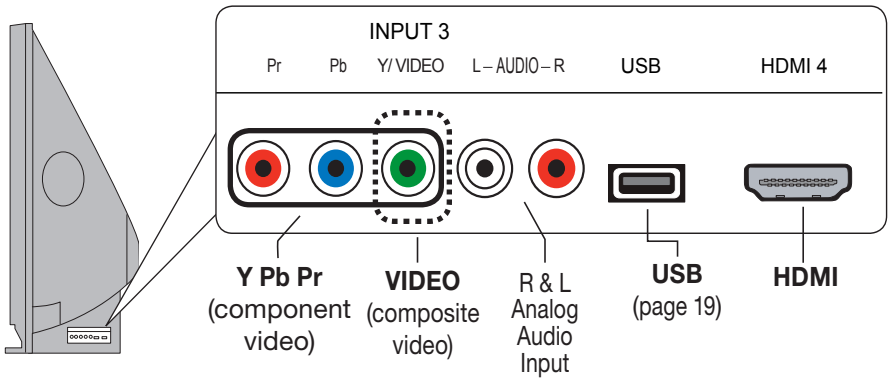
2 TV Connections

Main Connection Panel



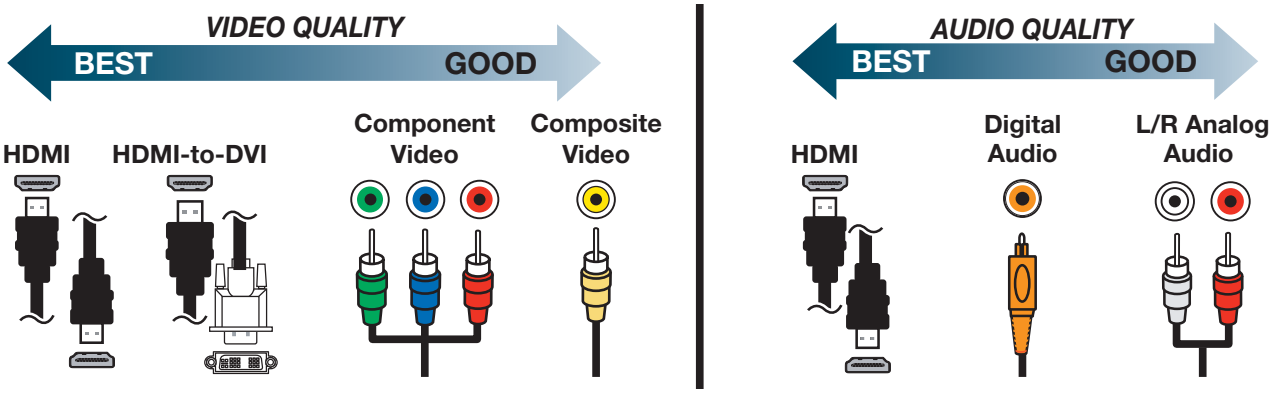
838 Series Side Inputs



Auto Input Sensing

The TV's Auto Input Sensing feature automatically recognizes many connections and prompts you to identify the type of device connected. See page 8 for more on Auto Input Sensing.

Connection Types and Audio/Video Quality



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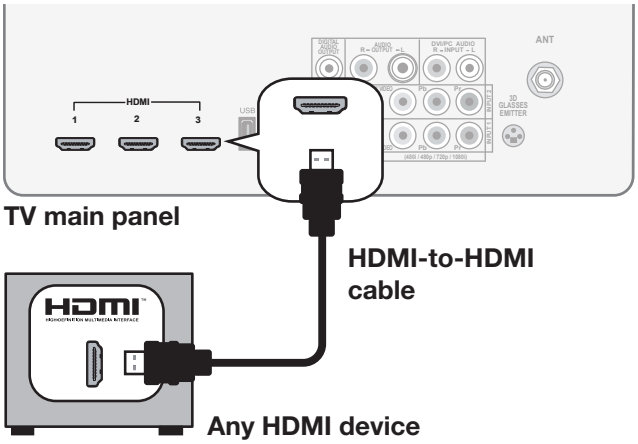
HDMI Device

Mitsubishi recommends using high-speed HDMI cables to connect newer devices incorporating HDMI technology.



HDMI and Digital Surround Sound

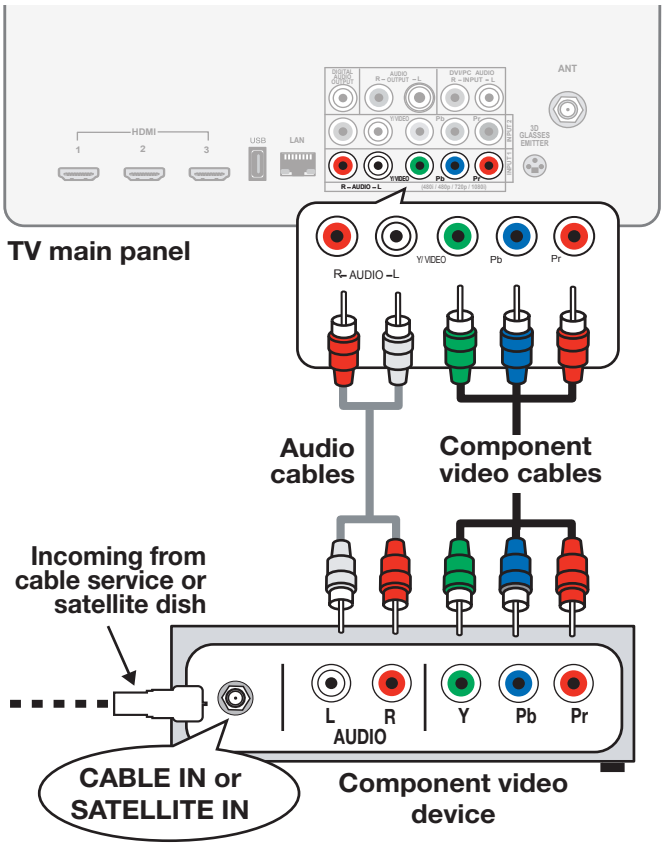
738 Series. The TV's HDMI inputs can receive digital stereo audio signals only when using the TV speakers.

838 Series. The TV's HDMI inputs can receive digital surround sound from an HDMI device. Use an HDMI connection if you want to hear digital surround sound from the TV's internal speaker array.

Y Pb Pr Component Video Device

Required:

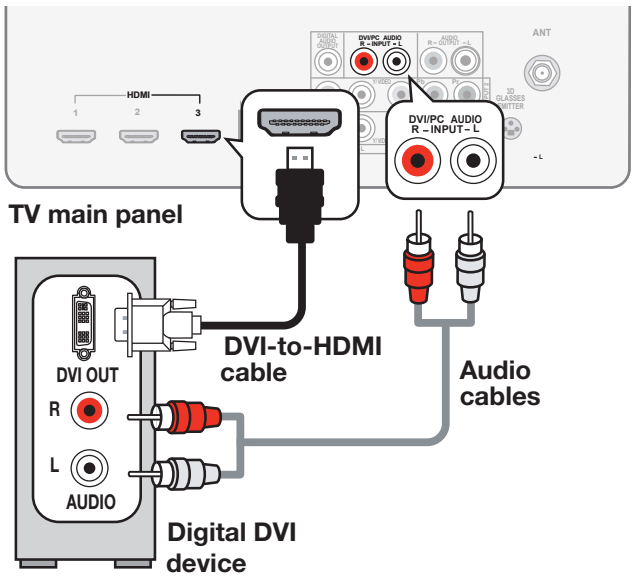
- RCA-type component video cables
- Left/right analog audio cables.



DVI Video Device

Required:

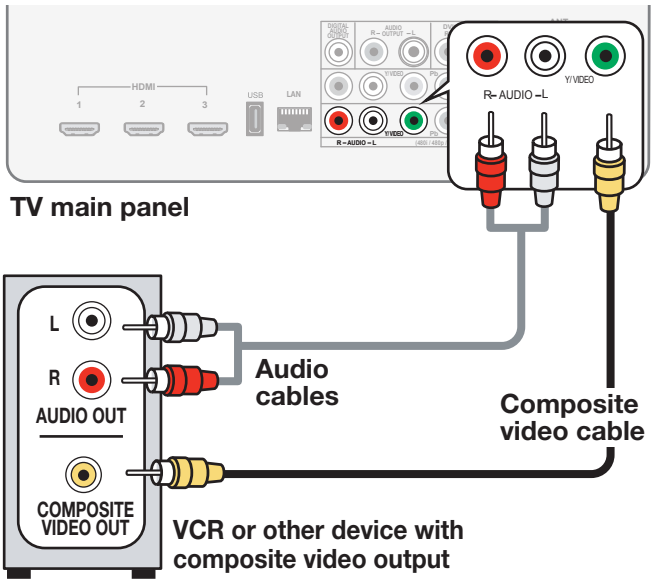
- DVI-to-HDMI cable or DVI/HDMI adapter and HDMI cable
- Left/right analog audio cables



Composite Video Device

Required:

- Composite video cable (usually yellow)
- Analog stereo audio cables.



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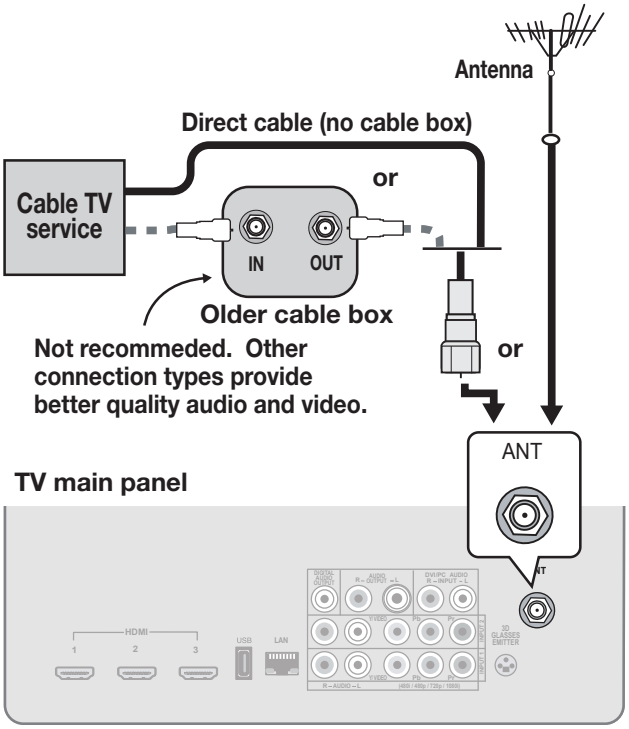
Antenna or Cable TV Service

Connect the incoming cable to the TV's **ANT** input.

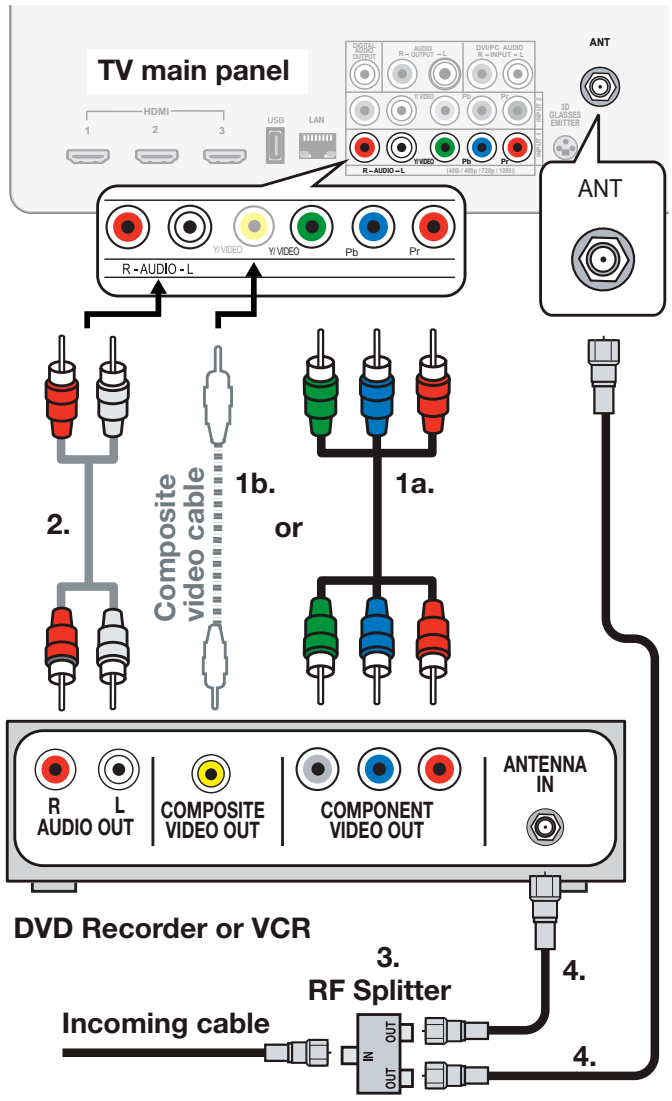


VCR or DVD Recorder to an Antenna or Wall Outlet Cable

Required:

1. Video cables
   - 1a. Component video cables (red/blue/green)
   - **or**
   - 1b. Composite video cable (usually yellow)
2. Left/right analog audio cables.
3. Two-way RF splitter
4. Two coaxial cables

Note: If your recording device has an analog-only tuner, you must use a digital converter box to enable recording of digital broadcasts.



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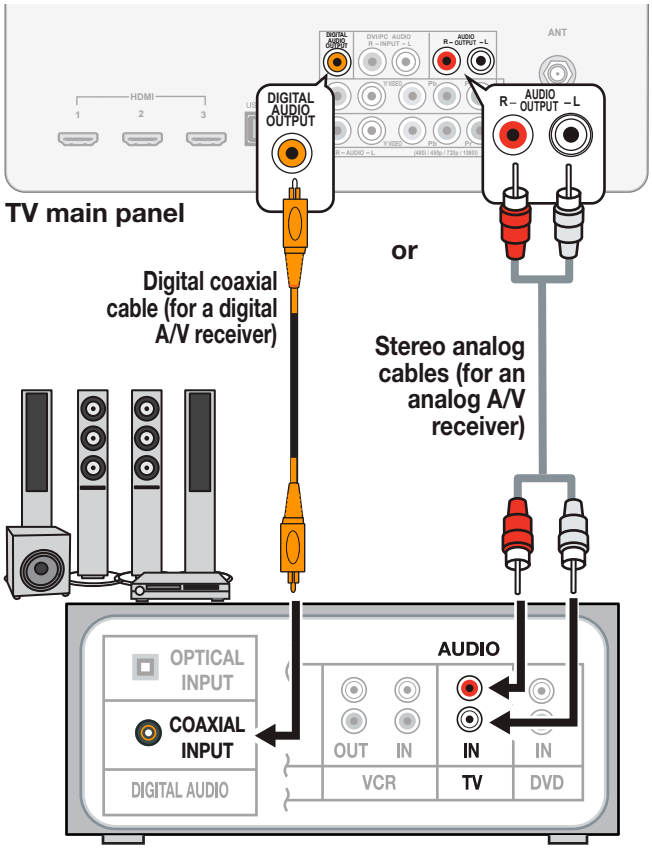
A/V Receiver

Most setups require either a digital audio cable or analog stereo audio cables. To send audio from TV channels received on the **ANT** input or devices connected directly to the TV, you must use one of the connections shown below.

The TV makes all audio available in digital and analog formats:

- Analog audio coming into the TV is available as output in digital stereo format on the **DIGITAL AUDIO OUTPUT** jack.
- Digital incoming audio is available as analog output on the **AUDIO OUTPUT L** and **R** jacks.



Note:

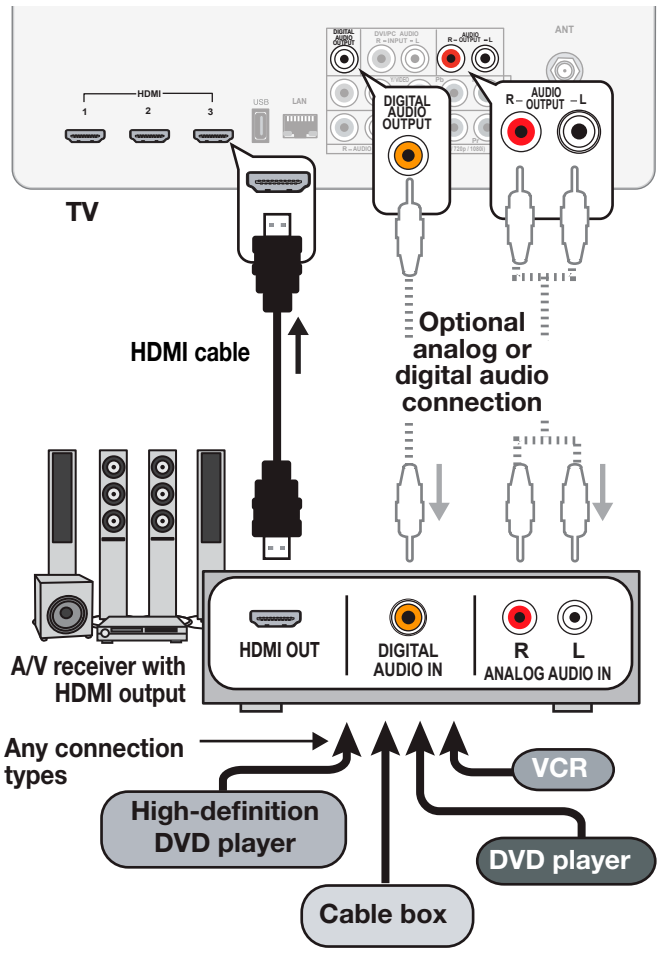
- On rare occasions, an HDMI signal may be copy-restricted and cannot be output from the TV as a digital signal. To hear these copy-protected signals through the A/V receiver, use the connection for an analog A/V receiver.
- Check the A/V receiver's Owner's Guide for information concerning use of the digital input and switching between digital sound and analog stereo sound from the TV.

A/V Receiver with HDMI Output

Required: One HDMI-to-HDMI cable

This option allows you to view content from devices connected to an A/V receiver. The A/V receiver can send audio and video to the TV over a single HDMI cable. You can use an HDMI connection as described here in addition to an audio connection from the TV's audio output. The optional audio connection allows you to hear, through the A/V receiver, devices connected to the TV only, e.g., an antenna on the **ANT** input.

838 Series: This setup allows you to use Net-Command-controlled audio and video switching over the HDMI cable. See the full owner's guide at www.mitsubishi-tv.com for details.



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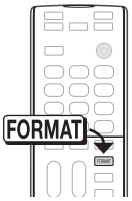
3 TV Features

The FORMAT Key and Picture Shape



Repeatedly press the **FORMAT** key to cycle through displays available for the current program. The TV will remember the format you last used on each input.

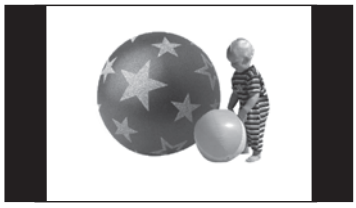
Important

Black bars at the edges of the picture are common in HD pictures. Black bars are not a defect of the TV.

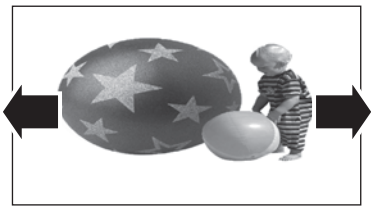
- Black bars are added by broadcasters to fill the 16:9 screen area while preserving the original aspect ratio of the picture.
- Your cable box or satellite receiver may also be altering the broadcast picture. If your receiver offers output in native format, try using it with Mitsubishi's picture formats.

Sample Uses of the FORMAT Key

You can use the **FORMAT** key to reduce or eliminate black areas at the edges of the picture.



Press FORMAT



Squarish 4:3 image is narrower than the 16:9 screen; unused areas at the sides are filled with black.

Wide Expand mode stretches the picture sideways to fill the screen.

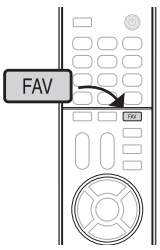
Press FORMAT

Wide 2.35:1 anamorphic DVD image; unused areas at the top and bottom are filled with black (letterbox effect).

Zoom mode. The picture fills the screen. All four edges are cropped in this mode.

FAV (Favorites)

The **FAV** key gives you quick access to favorite program sources. Sources can be channels from the **ANT** input or devices connected to the TV. You can store up to nine favorites.



Sample Favorites menu. Switch to favorite channels or inputs using number keys.

Adding

1. Press **INPUT** and switch the TV to the input you want to add. If adding a channel, switch to the **ANT** input and tune to the channel.
2. Press the **FAV** key.
3. Move the highlight to the number position you want to assign to the channel or input.
4. Press **ENTER**.

Removing

1. While watching TV, press the **FAV** key.
2. In the ***Favorites*** menu, highlight the channel or input you want to remove.
3. Press **CANCEL**.

Selecting

1. While watching TV, press the **FAV** key.
2. Press the number key for the channel or input you want.

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ChannelView Channel Listings

ChannelView displays program descriptions sent by broadcasters. This information may be unavailable in some areas.

About ChannelView

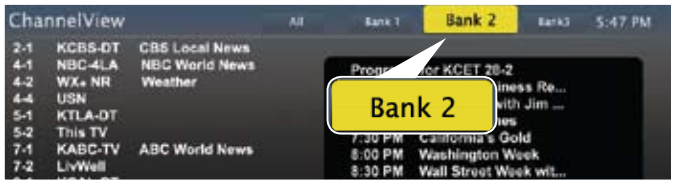
ChannelView™ shows memorized channels on the **ANT** input. It displays channel names and program information for digital channels. No program information is displayed for analog channels.

ChannelView allows you to set up three banks of custom channels for convenient access. You can save groups of channels by content (e.g., news, sports, children's programming) or by TV user.

Note: You must first set the TV Clock (page 24) to receive ChannelView listings.

ChannelView, "All" tab. Programs for the tuned channel are listed on the right.

ChannelView Custom Channel Banks



Select a channel bank to customize.

1. Press **GUIDE** to display ChannelView.
2. Press **MENU** to move the highlight to the bank header.
3. Press ◀ ▶ to select Bank 1, 2, or 3.
4. With the bank name highlighted, press **ENTER** to enter setup mode where you can select channels to include in the bank.
5. Press **EXIT** when finished with setup.

Using Custom Channel Banks

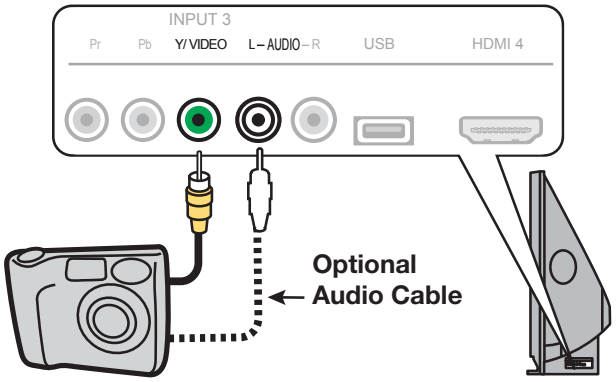
- While watching TV, press **CH** ∧/∨. The TV will tune only to channels stored in the current bank.
- To change to a different channel bank:
  1. Press **GUIDE.**
  2. Press **MENU.**
  3. Press ◀ ▶ to highlight a bank.
  4. Press **MENU** to see channels in the bank.
- To allow tuning to any channel in memory, select the **All** bank.

Photos and Moving Video as Composite Video

Note: 838 series TVs can display photos and play music from a USB drive. See the detailed owner's guide at www.mitsubishi-tv.com.

Connect the camera to the TV using a composite video cable and control the slide show or movie through the camera. The display resolution will be standard-definition (480i).

1. Refer to the owner's manual supplied with the camera for instructions needed for this setup.
2. Set the camera's output signal type to **NTSC** and put the camera into playback mode.
3. With the camera still turned on, connect your digital camera's composite video cable (usually yellow) to the TV's **Y/VIDEO** jack. To hear audio, connect the camera's audio output cable to the **AUDIO L** jack.



Camera connection using a composite video cable

4. When the ***New Device Found*** screen displays, assign the name **Camcorder**.
5. Press **EXIT** to close the ***New Device Found*** screen.
6. Highlight the icon for the camera input and press **ENTER**.

7. If viewing photos, control the slideshow from the camera. Advance through the images manually or check if the camera can advance automatically.

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3D Video

To display 3D gaming or 3D cinema content, your Mitsubishi TV requires:

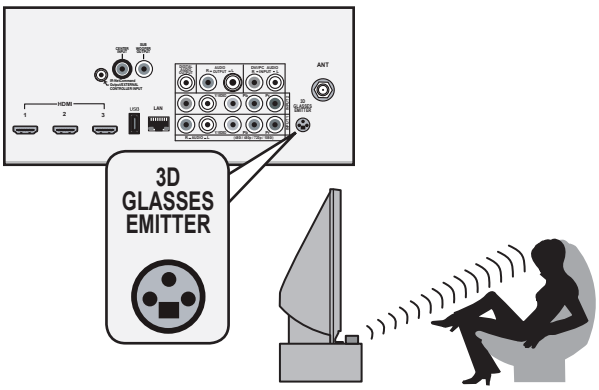
- A compatible 3D source device outputting a 3D signal in one of these formats:
  - Checkerboard format, 1080p, 60-Hz; (lower resolutions may be supported but will not fill the screen)
  - Side-by-Side format, 1080p, 24/30/60 Hz; 720p, 60 Hz
- Active-shutter 3D glasses, DLP link type or IR emitter type with matching emitter

Please visit our website at www.mitsubishi-tv.com for information about future TV software updates that will broaden 3D signal compatibility.

Initial Setup

1. If your 3D glasses came with an emitter box, connect the emitter box to the **3D GLASSES EMITTER** jack. Place the box in front of the TV where there is a clear path to the glasses.

Note: If your glasses are marked **DLP Link**, skip this step; no emitter box is required with DLP Link technology.

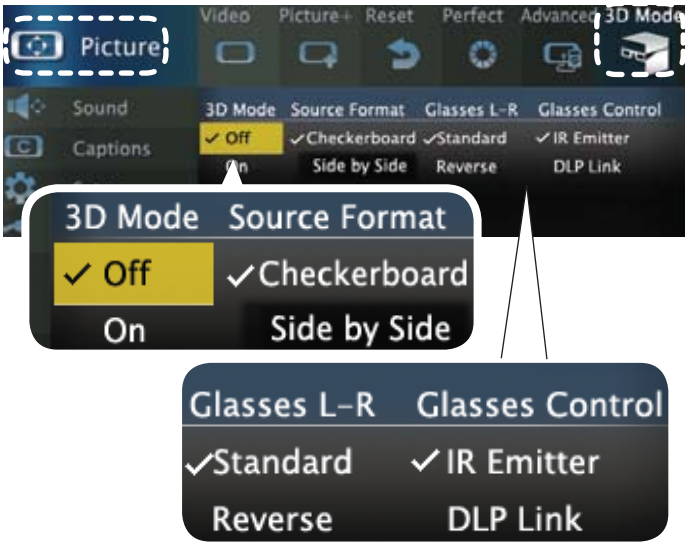


2. Power on the TV and the source device.
3. Connect the source device to the TV's HDMI input.
4. When the ***New Device Found*** screen displays, name the input.
5. Press **EXIT** to close the ***New Device Found*** screen.

Watching 3D Video

Note: Active 3D glasses are required.

1. Press **INPUT**.
2. Highlight the icon for the 3D video device and press **ENTER**.
3. Press **MENU** and select the ***Picture > 3D Mode*** menu.
4. Select **On** for **3D Mode**. The **On** setting will be memorized for the current input when you exit this menu.
5. Select the **Source Format**. If your source device outputs an unsupported signal format see "Notice Concerning Format Compatibility" on this page.
6. For **Glasses Control**, select the control type for your 3D glasses, either **IR Emitter** or **DLP Link**.



Use the Picture > 3D Mode menu to enable 3D video.

7. Press **EXIT** to close the menu.
8. If the image does not appear correct (e.g., objects appear to be moving in instead of out), open the ***Picture > 3D Mode*** menu and set **Glasses L-R** to **Reverse**.

To Watch Regular (non-3D) Video

The **3D Mode** setting is memorized for each input. When you want to watch non-3D video on the input selected above, open the ***Picture > 3D Mode*** menu and set **3D Mode** to **Off**.

Notice Concerning Format Compatibility

Mitsubishi 3DTVs (738 and 838 series) currently support the side-by-side 3D signal format. For support of other 3D formats, such as top-bottom and frame packing (3D Blu Ray standard), Mitsubishi 3DTVs will require the use of a 3D source device that outputs the 3D checkerboard format or a 3D source device coupled with the Mitsubishi 3D adapter. In all cases an emitter and matching 3D active shutter glasses or DLP Link active shutter glasses are required in order to view 3D content.

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3D Video, continued

3D Safety Requirements

- 3D Glasses are NOT designed as sunglasses or safety glasses and do not provide protection. 3D glasses should be worn only when viewing 3D material.
- Do not wear the wireless glasses in any situations that require unimpaired visual perception.
- Children under the age of 5 should not view 3D programming.

Under normal conditions, 3D viewing is safe for your movies or games. Some people may experience discomfort, however. To minimize the potential for experiencing visual problems or any adverse symptoms:

- Read and follow any and all safety warnings that accompany your 3D glasses or 3D source devices.
- Maintain a distance of no less than 2 to 2.5 feet away from the display. Viewing from too short a distance can strain your eyes.
- Take regular breaks, at least 5 minutes after every hour of 3D viewing.

If you experience any of the following symptoms, discontinue 3D viewing until the symptoms go away:

- nausea, dizziness, or queasiness,
- headache, or eyestrain,
- blurry vision,
- double vision that lasts longer than a few seconds,

Do not engage in any potentially hazardous activity (for example, driving a vehicle) until your symptoms have completely gone away. If symptoms persist, discontinue use and do not resume 3D viewing without discussing your symptoms with a physician.

Epilepsy

WARNING!
IF YOU OR ANY MEMBER OF YOUR FAMILY HAS A HISTORY OF EPILEPSY, CONSULT A PHYSICIAN BEFORE USING COMPUTER GAME PRODUCTS.

A small percentage of the population may experience epileptic seizures when viewing certain types of TV images or video games that contain flashing patterns of light.

The following people should consult a physician before viewing 3D Games or Video:

- Anyone with a history of epilepsy, or who has a family member with a history of epilepsy
- Anyone who has ever experienced epileptic seizures or sensory disturbances triggered by flashing light effects.

WARNING!
SOME LIGHT PATTERNS MAY INDUCE SEIZURES IN PERSONS WITH NO PRIOR HISTORY OF EPILEPSY. DISCONTINUE 3D VIEWING IF YOU EXPERIENCE ANY OF THE FOLLOWING SYMPTOMS:

- Involuntary movements, eye or muscle twitching
- Muscle cramps
- Nausea, dizziness, or queasiness
- Convulsions
- Disorientation, confusion, or loss of awareness of your surroundings

Do not engage in any potentially hazardous activity (for example, driving a vehicle) until your symptoms have completely gone away.

Do not resume 3D viewing without discussing the symptoms with your physician.

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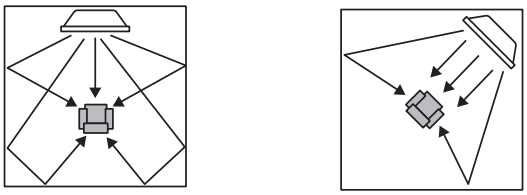
Sound Projector

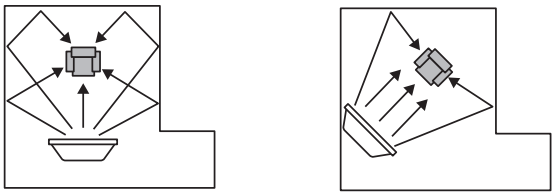
838 Series
The TV's built-in speaker array can be set up to reflect sound off the room walls to create a surround sound effect.

Positioning the TV

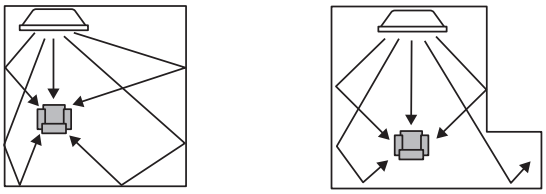
- Center the seating area in front of the TV and at least six feet away.
- Arrangements that give good results:



- If the room is an odd shape, locate the TV to take best advantage of wall reflections.



- Avoid locations that may distort sound reflections.



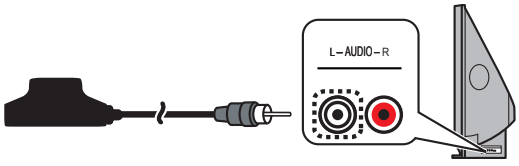
Connecting the TV

To hear digital surround sound, the TV must be connected to a digital surround sound source. The surround sound source can be on an HDMI input or the **ANT** input (for some digital broadcasts). Other stereo connections will provide Dolby Pro Logic surround sound.

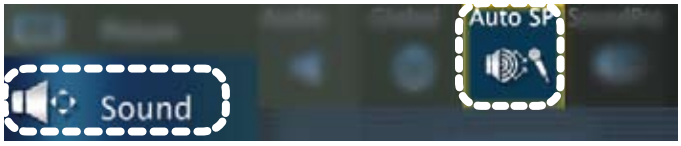
Auto Setup

Auto setup uses the included calibration microphone. For manual setup, see the full owner's guide at www.mitsubishi-tv.com.

1. Power on the TV and external subwoofer, if any.
2. Plug the microphone cable into the TV's **INPUT 3** left audio jack.



3. Place the microphone as described in the guidelines.
4. Press **MENU** and go to ***Sound > AutoSP.***



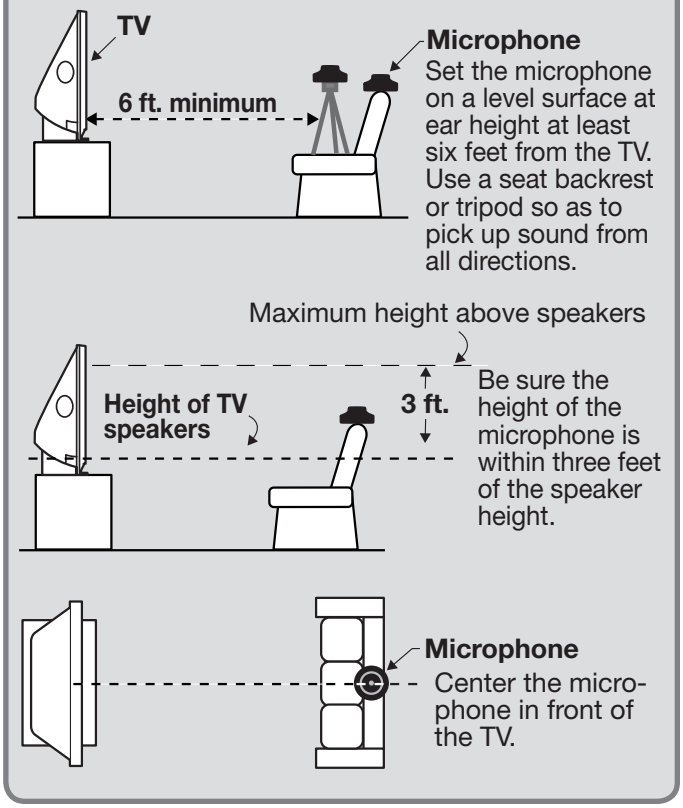
5. Highlight **START** and press **ENTER**.

6. Quietly exit the room right away. The calibration sequence may be loud. Wait for completion of setup before returning to the room.
7. Play some sample audio material to check the sound quality.

Note: Do not perform manual adjustments after running auto setup as doing so will delete all auto-setup results.

8. Store the microphone out of direct sunlight and away from heat.

Microphone Placement


TV
6 ft. minimum
Microphone
Set the microphone on a level surface at ear height at least six feet from the TV. Use a seat backrest or tripod so as to pick up sound from all directions.
Maximum height above speakers
Height of TV speakers
3 ft.
Be sure the height of the microphone is within three feet of the speaker height.
Microphone
Center the microphone in front of the TV.

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StreamTV™ Internet Media

Internet services provided by VUDU™ Apps let you access many popular on-line applications. In addition to free content, VUDU's movie service lets you buy and rent movies through the TV. Visit www.VUDU.com to learn more about available movie titles, prices, and services offered. For a list of recommended routers and switches, see the **Support > FAQ** section at VUDU.com.

Required for StreamTV internet media:

- Broadband internet service (at least 2 Mbps for SD, 4 Mbps for HD, and 8 Mbps for 1080p HDX)
- Ethernet cable **or** an Azurewave AW-NU231 USB wireless adapter.
- Computer access to the VUDU.com website (required for initial account activation).
- A credit card for rental and purchase transactions from VUDU's movie service.

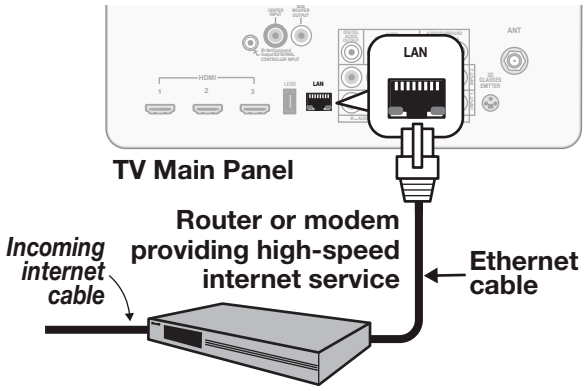
Home Network Setup

Before using StreamTV internet media, you must connect the TV to the internet using one of these methods.

Ethernet Connection

DHCP (automatic)

1. Connect the TV to your network router with a Category-5 Ethernet cable (not supplied).



2. Open the ***Setup > Network*** menu to review settings.
3. Press **EXIT** to clear the menu.

Manual

1. Connect the TV to your network router with a Category-5 Ethernet cable (not supplied).
2. In the ***Setup > Network*** menu, highlight **Manual** and press **ENTER**.
3. Press ▶ to move to the **Connection Data** area.
4. Input the connection data.
5. After entering connection data, press **ENTER** to connect.
6. Change any of the following if needed:
   - Default Gateway
   - DNS
   - Subnet Mask

Wireless Connection

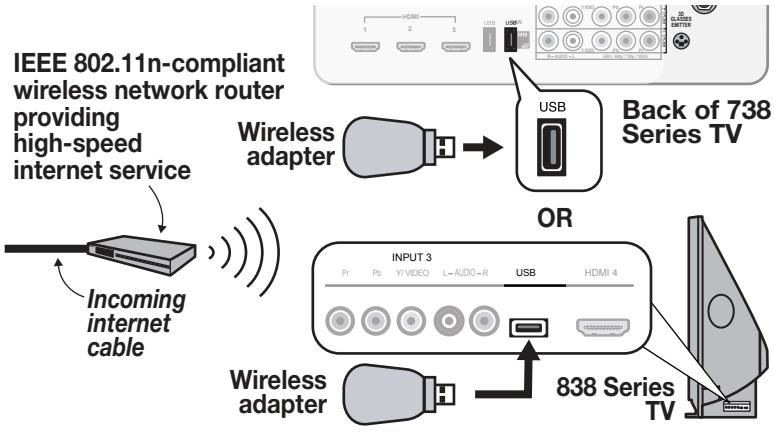
1. Disconnect the Ethernet cable if present.
2. Connect an Azurewave AW-NU231 USB wireless adapter to the TV's USB port.
3. Open the ***Setup > Network*** menu. After a few seconds, detected networks will appear listed on the screen in order of signal strength.

Setup > Network menu

4. Highlight the desired network and press **ENTER** to connect. A check will appear next to the connected network.

Setup > Network menu after connecting. The active network is checked and connection data displays.

5. If connecting to a secure network, enter the network key or password on the remote control when prompted.



Connecting the USB wireless adapter

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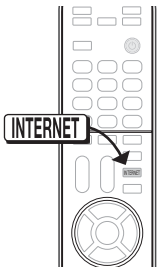
StreamTV™ Internet Media, continued

Using StreamTV Internet Media



After establishing internet connectivity, press the **INTERNET** key to display services from VUDU Apps. Press **ENTER** to launch an application.

Getting Started with VUDU Movies

1. After establishing internet connectivity, press **INTERNET** to display offerings from VUDU.
2. Select the VUDU movie service.
3. Browse the VUDU movie catalog and offerings.
4. When you are ready to rent or buy a movie, you will be prompted to activate your VUDU account. Follow the on-screen instructions and use a computer to go to **www.VUDU.com/activation.** A credit card is required for activation.

Once your account is activated, you can rent and buy movies using only the TV and the TV's remote control.

Specialized Keys for VUDU

INTERNET	Displays the VUDU internet menu.
GUIDE	VUDU **HOME** key
INFO	VUDU **MORE** key
LAST	VUDU **BACK** key (goes to previous menu)
CANCEL	VUDU backspace (in text-entry screens)
F2	VUDU System menu
EXIT	Exit VUDU

Troubleshooting

If You Are Unable to Connect to the Internet

- Check all power and data connections.
- If you can reach the internet with a computer or other device on the same internet service used by the TV, consult the router or modem owner's guide for reset instructions.
- If you cannot reach the internet, contact your service provider. You may be asked for network information such as the TV's IP address. Go to the ***Setup > Network*** menu to see connection data.

For Further Assistance

- If you are having trouble connecting your TV or accessing internet applications, contact Mitsubishi Customer Care at 1-800-332-2119.
- If you are having difficulty with your VUDU account, contact VUDU Customer Care at www.VUDU.com/support.
- See more troubleshooting tips in Appendix C.

Wireless Audio Playback

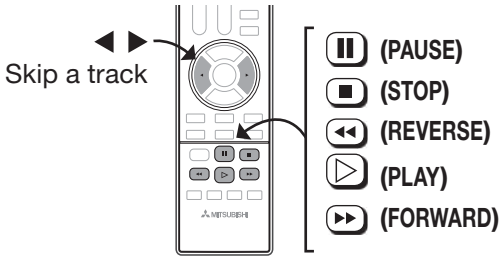
838 Series. The TV's built-in speaker array can play audio from a handheld device using *Bluetooth*® A2DP (stereo audio) wireless technology.

Pairing the TV with an Audio Device

1. Turn on the wireless device you wish to use for playback. Turn off all other wireless devices in the area as the TV can pair with only one device at a time.
2. Press **INPUT** to display the ***Input Selection*** menu.

Bluetooth® icon in Input Selection Menu

3. Highlight the **Bluetooth** icon and press **ENTER**.
4. Pair your device with the TV and then connect. Some devices pair and connect automatically, while others require you to enter the TV pass code displayed.
5. Use keys on the TV's remote control to control playback. Not all keys work for all devices.



Resetting *Bluetooth* Pairing or Connection

Perform this reset if the audio device does not connect properly to the TV.

1. If the audio device has been previously paired with the TV, delete the TV from the device's paired list.
2. Go to the TV's ***Inputs > Name*** menu and highlight the *Bluetooth* icon. Press **ENTER** to select **Off**.
3. Press **EXIT**.
4. Go to the ***Inputs > Name*** menu and highlight the *Bluetooth* icon. Press **ENTER** to select **On**.
5. Press **EXIT**.

Tips for Wireless Playback

- Selecting the **Bluetooth** icon at a later time will reconnect the TV to the paired device.
- If the paired device is not available, the TV will accept pairing from a different device.
- Once connection is lost, the TV will power off after five minutes without receiving a signal.
- To clear a paired device, turn off the **Bluetooth** icon (***Inputs > Name*** menu) or pair the TV with a different device.

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4 TV Menus

Press MENU on the remote control to open the main menu and access these settings.

Picture

Picture > Video

Settings in this menu are saved for the current input only. **To make picture adjustments:**

From the *Picture* > *Video* menu

1. Press ▲▼ to highlight an option
2. Press ◀ ▶ to adjust.

While watching TV

1. Press the VIDEO key.
2. Press ▲▼ to select a video option.
3. Press ◀ ▶ to change the setting.

Picture Mode	**Brilliant**	For use under bright light.	Set the Picture Mode before changing other video settings, Use Picture Modes to get the best image under different viewing conditions.
	Game	Optimizes picture and video processing for game consoles. Available only when the input name is **Game** or **PC**.	
	Bright	For most daytime viewing	
	Natural	For most nighttime viewing	
	Cinema	Good for viewing movies in moderate to dim lighting.	
	Advanced Modes. Contact your professional installer for setup.		
Contrast	In most home lighting situations, medium contrast looks best. Stored for each Picture Mode.		
Brightness	Adjusts overall picture brightness. Stored for each Picture Mode.		
Color	Adjusts overall color intensity from monochromatic to fully saturated. Saved by input.		
Tint	Adjusts the red-to-green ratio. Saved by input.		
Sharpness	Adjusts picture detail and clarity. Saved by input.		
Color Temp)	**High** gives white a cool cast. **Low** gives white a warm cast. Stored for each Picture Mode.		
Video Noise	Reduces minor noise (graininess) in the picture. Saved by input.		
EdgeEnhance	EdgeEnhance™ makes the image appear sharper. Saved by input.		
DeepField Imager	Provides strong contrast with detail over mixed screen content. **Demo** displays a split picture to show **On** (right side) and **Off** (left side). Saved by input.		

Picture > Picture+ (Picture Plus)

Video Mute	Displays a solid background when there is no video signal from the current input.
Screensaver	Displays a screensaver pattern while playing an audio-only source.
Film Mode	**480i and 1080i signals only.** In **Auto**, the TV automatically detects and applies film-decoding correction to movies filmed at 24 frames per second. Try the **Off** setting if images show many jagged edges. Setting saved by input.
Smooth 120	Smooth 120 reduces motion blur in action scenes but may show pixel structure during slower motion or in still images. Works in conjunction with Film Mode.
Test Picture	Displays a test picture.

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Picture, continued

Picture › Reset

- Resets sound and picture adjustments for the current input. Highlight the **Reset** icon and press **ENTER** twice to perform reset.
- **Reset** has no effect on universal settings (**Balance**, **Listen To**, **Language**) or on **Advanced** picture settings.

Picture › Perfect

(PerfectColor/PerfecTint) **838 Series**. Sliders let you adjust the saturation (intensity) and hues of six separate colors for the current image source.

Picture › Advanced

Advanced Modes. Contact your professional installer for setup.
738 Series. Special/ADV.
838 Series. ISF Day/ADV1, ISF Night/ADV2

Picture › 3D Mode

See page 16.

Sound

Sound › Audio

Settings in this menu are saved for the current input only. To make audio adjustments:

From the *Sound* > *Audio* menu

1. Press ▲ ▼ to highlight an option
2. Press ◀ ▶ to adjust.

While watching TV

1. Press the **AUDIO** key.
2. Press ▲ ▼ to select an audio option.
3. Press ◀ ▶ to change the setting.

TV Speakers (sound source)	**On**	Turns on the internal TV speakers.
	Off	Turns off the internal TV speakers so you hear sound only through a connected device (A/V receiver or headphones).
	Center	**838 Series.** Makes the TV's speaker array act as a center channel. See the detailed owner's guide at www.mitsubishi-tv.com for use of this feature.
Subwoofer	**[Subwoofer level adjustment]**	**838 Series.** Adjusts the volume level of a connected subwoofer. Set ***Sound* > *Global* > *Subwoofer*** to **On** to make this adjustment available.
Bass	Controls bass sound from the TV speakers.	
Treble	Controls high-pitched sound from the TV speakers.	
Balance	Controls audio balance between the right and left TV speakers (Sound Mode Stereo only)	
Sound Mode	**Stereo**	No special audio effects from the TV speakers
	Surround	Modifies audio from the TV speakers. • For monaural (non-stereo) programs, creates a simulated stereo effect. • For stereo programs, creates a simulated surround sound effect. • **838 Series.** The TV's speaker array plays surround sound if available.
	Music	**838 Series.** Optimizes the TV's speaker array for music listening.
	Night	**838 Series.** Focuses the TV's speaker array to a single point to limit sound heard by others outside the room. Press **ENTER** to adjust the focal point (**Night Angle**).

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Sound, continued

Level Sound	**On, Off**	Reduces differences in sound volume between programming segments.
Analog Listen To (For antenna analog channels)	**Stereo**	The TV plays stereo broadcasts in stereo and mono broadcasts in mono.
	SAP	Second Audio Program. Selects an additional monaural sound track.
	Mono	Reduces background noise. Use when receiving a weak stereo audio signal.

Sound › Global

838 Series. Settings in this menu apply to all inputs.

Analog Audio Out	These settings affect audio from the **AUDIO/SURROUND OUTPUT** jacks.	
	Fixed	Use with an analog A/V receiver.
	Variable	Use with headphones; adjust headphone volume using the TV's remote control.
	Rear	**838 Series.** Use when supplementing the TV's speaker array with external rear speakers.
Subwoofer	Select **On** to turn on audio to a connected subwoofer. Set to **Off** if no subwoofer is connected.	
Center Channel	**On** allows the TV's speakers to complement your external sound system as a center channel. Set to **Off** if not in use.	

Sound › Auto Sp

838 Series. See page 18 for setup instructions.

Sound › SoundPro

838 Series. Lets you set up the Sound Projector speaker array manually. See the detailed owner's guide at www.mitsubishi-tv.com.

Captions

Captions › Services

Service	**On if Mute:** Displays digital closed-caption signal Caption 1 (digital) or CC1 (analog) when audio from the TV speakers is muted. While watching TV, press **MUTE** to turn closed captions on/off.
Digital	**Caption 1–Caption 6:** Caption signals sent by the broadcaster.
Analog	• **CC 1–CC 4.** Standard closed-caption signals • **Text 1–Text 4.** Text-service signals

Captions › Font

As Broadcast changes settings to those selected by the captions provider, or, if none, to the TV's own caption defaults.

Captions › Color

A white font on a black translucent background makes an easy-to-read combination.

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Setup

Setup › Language

- Select either English or Spanish for on-screen menus.
- Select the language for a digital program from the **ANT** input (if available).

Setup › Clock

Set the TV clock to:

- Use the TV Timer to power on the TV automatically at a preset time
- Receive correct updates to ChannelView listings

Note: When the Daylight Savings Time change occurs, you must open this menu and set the TV's clock ahead or back.

Setup › Timer

The Timer tells the TV to power on automatically at a time you set. Use this menu to set a day, time, input, and channel for the Timer. If the TV is already on at the set time, the TV will automatically change to the designated channel or input.

- The TV clock must be set before you can use the Timer feature.
- As a reminder that the TV Timer is set, the TV **POWER** indicator flashes slowly while the TV is powered off.
- When the Timer turns on the TV, press any key on the remote control to keep it from turning off after five minutes.

Setup › Channel

See "Memorizing Channels with Channel Scan" on page 7 to scan for all available channels on the **ANT** input.

Edit

After channel scan, **Edit** lets you add and delete memorized channels.

- Press **PAGE** ∧/∨ to jump to the next or previous page of channel numbers.
- Press ▲▼◀▶ to move through all channel numbers, one at a time.

Adding/Deleting Channels Using the Channel Edit Menu

- Channels marked with a check are in memory.
- To add or delete a channel from memory, highlight the channel number and press **ENTER**.
- To add a single digital channel not in the list, see the full owner's guide at www.mitsubishi-tv.com.

Setup › Energy

Lamp Energy	**Standard, Bright**	**Standard** is for most viewing conditions. Use **Bright** in brightly lit rooms. You may notice increased fan noise when using the **Bright** setting.
Blue Glow (838 series)	**On, Off**	Select **On** to see blue accent lighting when the TV is powered on.

Setup › Home Network

Ethernet Connection
Wireless Connection

See "Home Network Setup," page 19.

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Inputs

Inputs › Name

- Lets you assign or change names of inputs appearing in the ***Input Selection*** menu.
- Highlight the input and press **ENTER** to see the name choices.
- Lets you turn the **Ant** input **On**/**Off** (to display or hide it in the ***Input Selection*** menu).
- **838 Series.** Lets you turn the *Bluetooth* input **On**/**Off** (to display or hide it in the ***Input Selection*** menu); a paired device is cleared from memory when the *Bluetooth* icon is turned off.
- Lets you delete unused HDMI inputs from the ***Input Selection*** menu.

Inputs › Learn

838 Series. Sets up or changes NetCommand IR control of the current device.
See the full owner's guide at www.mitsubishi-tv.com.

Inputs › AVR

838 Series. Sets up or changes NetCommand IR control of an A/V receiver.
See the detailed owner's guide at www.mitsubishi-tv.com.

Inputs › HDMI Control

On, Off

Select **On** or **Off** to enable or disable the TV's control of a CEC-enabled device.
See the detailed owner's guide at www.mitsubishi-tv.com for use of this feature.

Inputs › Order

Lets you rearrange icons in the ***Input Selection*** menu.

Inputs › Demo

See demonstrations showcasing selected TV features.

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Lock

Parental Menu

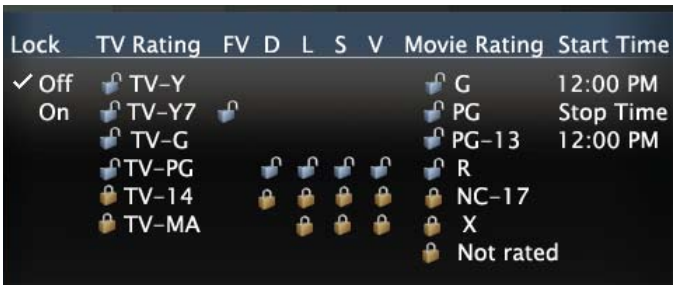
The TV comes from the factory with the rating locks turned off and with pre-set U.S. ratings TV-PG and movie rating PG. You must turn on blocking for U.S. ratings to activate these rating restrictions. You will be prompted to enter a pass code when you select **Lock** on the main menu.

Important Notes on Rating Locks

- ***Parental*** menu rating locks apply only to channels and signals received on the **ANT** and composite **VIDEO** jacks.
- ***Other*** menu rating locks apply only to digital channels received on **ANT**.
- When viewing a cable box, satellite receiver, or other device connected to the component **Y Pb Pr** or **HDMI** inputs, check the device's owner's guide for parental locks.
- When accessing VUDU's internet movie service, use the parental controls provided by VUDU.

Lock › Parental

Lock	Disables or enables blocking based on V-Chip signals and the U.S. rating system.
TV Rating	Highlight the rating level you wish to change and press **ENTER** to block it (🔒) or allow it (🔓). You can apply supplemental content blocking to the age-based ratings by using the TV content categories. (**FV, D, L, S, V**)
Movie Rating	Highlight the rating level you wish to change and press **ENTER** to block it (🔒) or allow it (🔓).



Start Time/ Stop Time	Sets the time of day for enforcement of rating restrictions set in the ***Parental*** menu. **Note:** To make rating restrictions active 24 hours a day, make **Start Time** and **Stop Time** the same.

Lock › Time

Blocks all use of the TV during the time period you specify. Once a lock time is set, it goes into effect immediately and you must enter a pass code to use the TV during the lock period. To reactivate the time lock, power the TV off and then back on. To make **Lock by Time** active 24 hours a day, make **Start Time** and **Stop Time** the same.

Lock › Channel

The ***Channel Lock*** menu lists channels currently in memory (see page 24). Highlight a channel and press **ENTER** to lock (🔒) or allow (🔓) the channel. Channels locks will be cleared the next time you perform a channel scan.

Lock › Panel

Use this option if small children try to press TV buttons.

- To release the Panel Lock from the TV's control panel, press and hold the **INPUT** button for ten seconds. If the TV is powered off, press **POWER** after the lock releases to power on the TV.
- To reactivate the lock, return to this menu and change the setting to **On**.

Lock › Other

Other Menu Options (alternate rating system)
This TV can recognize new rating systems that may come into effect in the future. Such alternate rating systems will apply only to digital programming received on the **ANT** input.

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Appendix A: TV Care

Lamp-Cartridge Replacement and Cleaning

CAUTION: If the television is on, press POWER to turn it off. Unplug the television and allow it to cool for at least one hour before attempting to replace the lamp cartridge.

Lamp

The light source for this television is a lamp, which is part of a lamp cartridge assembly. The life of the lamp can vary, based on the lamp itself, the air temperature around the TV while it is operating, the selected lamp mode, and your viewing patterns. Warmer air or poor ventilation shorten the lamp life, as does setting **Lamp Energy** to **Bright** and turning the television on and off frequently.

CAUTION

BURN DANGER! HOT SURFACES INSIDE!

Touch lamp cartridge handle only. Do not touch lamp or lamp cartridge housing. Keep lamp cartridge horizontal during removal. Do not tilt as glass may come out and cause injury. Replace lamp cartridge only with the same part number 915B441001.

Mitsubishi warrants the lamp for one (1) year from the date of original TV purchase at retail.

WARNING

THE ACCESS PANEL IS PROVIDED WITH AN INTERLOCK TO REDUCE THE RISK OF EXCESSIVE ULTRAVIOLET RADIATION. DO NOT DEFEAT ITS PURPOSE OR ATTEMPT TO SERVICE WITHOUT REMOVING PANEL COMPLETELY.

To Order a New Lamp

To Receive a Replacement Lamp Under Warranty

- Visit our website at www.mitsuparts.com.
- Call (800) 553-7278. Please have model number, serial number, and TV purchase date available.

Important: All lamps replaced under warranty must be returned to Mitsubishi where they will be inspected to verify failure defects.

To Purchase a Replacement Lamp After Warranty

Visit our website at www.mitsuparts.com or call (800) 553-7278. Order the following:

Lamp Part Number 915B441001

Lamp-Substitution Alert

MDEA recommends that you use only genuine Replacement Lamp Assemblies purchased directly from Mitsubishi or a Mitsubishi Authorized Dealer or Mitsubishi Authorized Service Center. MDEA advises that replacement lamps obtained separately from the Lamp Cartridge and/or Lamp Assemblies obtained from unauthorized sellers may be incorrect for your television, may not fit or perform properly and may even damage your television. MDEA can not be responsible for the performance, reliability or safety of any replacement lamps that are obtained from unauthorized sources.

WARNING

- Do not remove the lamp cartridge immediately after turning off the television. You may get burned because the lamp is very hot. Allow the television to cool for at least one hour before replacing the lamp cartridge.
- Do not remove the lamp cartridge except when replacing it. Careless treatment can result in injury or fire.
- Do not touch the lamp glass element. It may be very hot and break, causing injuries or burns.
- Be sure not to insert any metal or flammable object into the lamp cartridge opening, as it may cause fire or electrical shock. If a foreign object is inserted into the opening, unplug the AC cord of the TV and contact your dealer for service.
- Install the lamp cartridge securely. Failure to do so may cause a fire.
- Do not touch the lamp glass elements. Oils from your fingers may cause premature lamp failure.

Hg = MERCURY

THE LAMP INSIDE THIS PRODUCT CONTAINS MERCURY AND MUST BE RECYCLED OR DISPOSED OF ACCORDING TO LOCAL, STATE OR FEDERAL LAWS. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance at **www.eiae.org**

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Appendix A: TV Care, continued

Lamp-Cartridge Replacement

Removing the Old Lamp Cartridge

1. Turn off TV power and unplug the TV. Allow the lamp to cool for at least one hour before proceeding.
2. After the lamp has cooled, remove the cover of the lamp compartment, located on the back of the TV.

   Refer to figures 1 and 2. Use a #2 (medium) Phillips screwdriver to loosen the screw securing the cover. Keep the screw and cover for re-installation
3. With a medium Phillips screwdriver, loosen the two screws securing the lamp cartridge until they disengage from the mating threads. These are captive screws and cannot be separated from the lamp cartridge.
4. Fully open the bag supplied with the replacement lamp and set the opened bag aside.
5. Gently grasp the handle of the lamp cartridge and pull the old cartridge straight out. See figure 3.

   CAUTION: Do not tilt or rotate the cartridge, as small glass fragments may fall out.
6. Without tilting or putting down the lamp cartridge, insert it into the opened bag. Close the bag while being careful not to let any glass particles fall out.

Installing the New Lamp Cartridge

1. Do not touch the glass parts of the new lamp cartridge. Insert the new cartridge into the TV in the same orientation as the old cartridge. Push on the cartridge housing until it is fully seated.
2. Gently tighten the screws with the screwdriver. AVOID OVERTIGHTENING!
3. Replace the plastic cover and retaining screws.
4. WASH YOUR HANDS THOROUGHLY, AS THIS LAMP CONTAINS MERCURY.

Disposal of the Old Lamp Cartridge

Lamp under warranty: All lamps replaced under warranty must be returned to Mitsubishi. Use the return shipping label provided and send to Mitsubishi Digital Electronics, America, 625 Braselton Parkway, Suite 200, Braselton, GA 30517.

IMPORTANT: Lamps found without defects will be returned and charged back to the sender.

Lamp no longer under warranty: Contact your local authorities or the Electronic Industries Alliance at www.eiae.org for lamp-disposal or recycling instructions. Do not dispose of the old lamp with common trash.

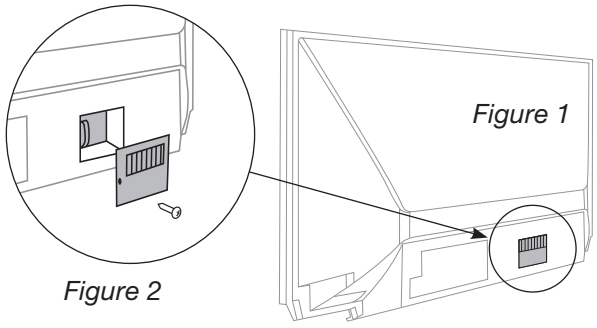

Figure 1

Figure 2

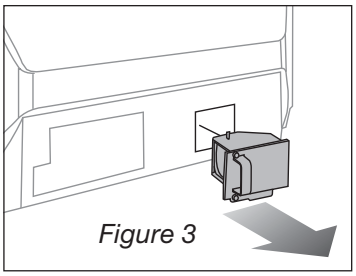

Figure 3

Use only replacement lamp part number 915B441001.

Lamp-Cartridge Filter Cleaning

If the TV shuts off after displaying the message "TV will shut down in a few seconds. Please check if the air flow is blocked" and/or the **STATUS** LED is yellow, the air filter may need cleaning. The air filter is part of the lamp cartridge. Use the following procedure to clean the filter.

1. Remove the lamp cartridge from the TV as described under "Removing the Old Lamp Cartridge." Do not tilt or rotate the cartridge. Do not touch the glass parts of the lamp cartridge.
2. Holding the lamp cartridge horizontal (do not tilt or rotate), use a soft dry brush or vacuum cleaner to remove any dust that may be present on the mesh filters. Do not use liquids. See figure 4.
3. Reinstall the lamp cartridge as described under "Installing the New Lamp Cartridge."

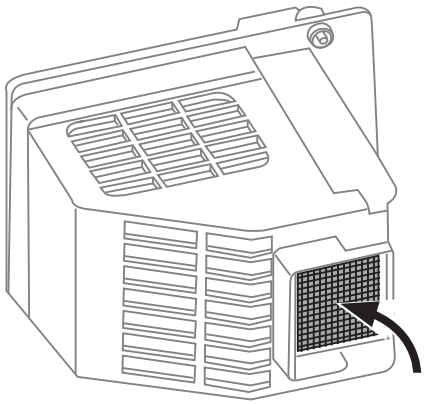

Figure 4

Keep lamp cartridge horizontal and remove dust from the mesh filter using a vacuum cleaner or soft dry brush.

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Appendix A: TV Care, continued

Cleaning Recommendations

Normally, light dusting with a dry, non-scratching duster will keep your TV clean. If cleaning beyond this is needed, please use the following guidelines:

First, turn off the TV and unplug the power cord from the power outlet.

Occasionally clean dust build-up from the air-intake grilles on the back and sides of the TV. Clean using a vacuum cleaner with a brush attachment.

Top and Sides of the TV

- Gently wipe down your TV with a soft, non-abrasive cloth such as cotton flannel, microfiber, or a clean cloth diaper, lightly moistened with water. Dry with a second dry, soft, non-abrasive cloth.
- For oily dirt, add a few drops of mild liquid detergent, such as dishwashing detergent, to the water used to moisten the cloth. Rinse with a second cloth moistened only with water. Dry with a third dry, soft, non-abrasive cloth.

Screen

- Follow the instructions for the top and sides, wiping gently in an up and down motion.
- Clean the entire screen evenly, not just sections of the screen.
- Do not allow liquid to drip down the screen, as some liquid may enter the TV through the gap between the screen and screen frame.
- You may purchase Mitsubishi Screen Cleaner, part number CLEANER-VSS, by calling (800) 553-7278.

General Cleaning Precautions

- DO NOT allow liquid to enter the TV through the ventilation slots or any crevice.
- DO NOT use any strong or abrasive cleaners, as these can scratch the surfaces.
- DO NOT use any cleaners containing ammonia, bleach, alcohol, benzene, or thinners, as these can dull the surfaces.
- DO NOT spray liquids or cleaners directly on the TV's surfaces.
- DO NOT scrub or rub the TV harshly. Wipe it gently.

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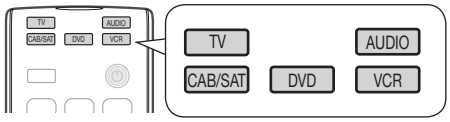
Appendix B: Programming the Remote Control

Programming the Remote Control

1. Change the control mode to match the device type.



Mode	Affected Device
CAB/SAT	Cable Box, DTV Receiver, Satellite Receiver
VCR	VCR, DVR, DVD Player/Recorder
DVD	DVD Player/Recorder, DVR, VCR
AUDIO	A/V Receiver, Audio Amplifier, CD Player

2. Press and hold **POWER** on the remote control for several seconds until the key blinks twice and goes off.
3. Enter the first five-digit code listed for your equipment.
4. Point the remote control at the equipment and press **POWER**. If the product has no power on/off function, press a different key, such as ▷ **(PLAY),** ■ **(STOP), VOLUME UP**, or **MUTE.**
5. If the equipment does not respond, repeat the preceding two steps using the next five-digit code.
6. Once you have found the correct code, write it in the space below for future reference.

Mode	Device Type	Code
CABLE/SAT		
VCR		
DVD		
AUDIO		

This is an abbreviated list showing the most popular codes. For a full list, see the detailed owner's guide at www.mitsubishi-tv.com.

Cable Boxes	
General Instrument Jerrold	10476
Motorola	11376, 11187, 10476
Pace	11982, 11877, 11376
Pioneer	11877, 10877
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Bose	41933, 41841, 41629, 41253, 41229, 40639
Denon	42857, 42279
Harman/Kardon	42443, 42241, 41306, 41304, 40891
Integra	41805, 41320, 41298
JVC	42331, 42239, 42040, 41495, 41374
Kenwood	41570, 41569, 41313
Mitsubishi	41957, 41922, 41921, 41920, 41393
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Panasonic	41763, 41633, 41548, 41518, 41316, 41308, 41288, 41275, 42967, 42452, 42221, 41764
Pioneer	41935, 41384, 41023, 40630
Sony	41759, 41758, 41658, 41622, 41558, 41441, 41258, 41058, 42522, 42216, 42172, 41858, 41822
Technics	41518, 41308
Yamaha	41476, 41376, 41375, 41331, 41276, 41176, 40376, 40176 42471, 42467, 42061, 41815

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DirecTV	11749, 11377, 11142, 10749, 10639, 10566, 10392, 10247 11856, 11609, 11442, 11414, 11109, 11076
Dish Network System	11775, 1150, 1077
Hughes Network Systems	11749, 11442, 11142, 10749
Mitsubishi	10749
RCA	10566, 10392, 10143
Samsung	11609, 11442, 11377, 11276, 11109

VCRs	
Hitachi	20042, 20000
JVC	20067
Magnavox	21593, 20593, 20081, 20039, 20035, 20000
Matsushita	20162, 20035
MGA	20043
Mitsubishi	20173, 20067, 20043
Panasonic	21062, 20616, 20614, 20162, 20035
RCA	20880, 20060, 20042
Sony	21972, 21032, 20636, 20035, 20033, 20032, 20000
Tivo	20739, 20636, 20618
Toshiba	21972, 21008, 20045, 20043
Zenith	21139, 20039, 20037, 20033, 20000

DVD Players	
Apex Digital	31061, 31056, 31020, 31004, 30797, 30796, 30794, 30755, 30672
Coby	31628, 31351, 31177, 31165, 31107, 31086, 30852, 30778
Denon	32258, 30634, 30490

DVD Players	
Funai	30675
Hitachi	30664, 30573
Insignia	32596, 32428, 32095, 30675
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JVC	32365, 31602, 31550, 31275, 31164, 30867, 30623, 30558
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Sharp	32250, 31256, 30752, 30675, 30630
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Yamaha	32558, 32298, 30817, 30646, 30545, 30539, 30490
Zenith	30869, 30741, 30591, 30503

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Appendix C: Troubleshooting

TV Reset Comparison Guide

You can resolve many common TV problems using the reset functions described in the following table. .

IMPORTANT
Before you change sound or picture settings: If picture or sound settings seem wrong for a broadcast channel (a channel from the **ANT** input, a cable box, or satellite receiver), first check other channels from the same input before changing settings. If most other channels from the same input seem correct, there is likely a problem with the broadcast rather than with the TV. Use care in this case, as changes you make to fix problems on individual channels also affect all other channels on the same input.

Reset Name	When to Use	How to Use	Resulting Action
Format	If the picture shape seems incorrect, use the **FORMAT** key to change the picture shape.	Press **FORMAT** to cycle through the picture shapes available for the signal.	The last-used format for a signal type will be recalled on the input. **Note:** Also check the aspect ratio feature on your cable box or satellite receiver as this may be altering the picture.
PerfectColor™/ PerfecTint™ Reset (838 Series) (for the single input currently being watched)	When the color intensities seem out of balance, use the PerfectColor/PerfecTint reset to reset the color balances to the original factory settings. Both PerfectColor and PerfecTint are reset at the same time.	1. While viewing the input to be reset, press **MENU** and go to **Picture > Perfect**. 2. Press **ENTER** to display the PerfectColor adjustment screen. 3. Press **CANCEL** to reset the colors.	All PerfectColor/PerfecTint sliders are reset to the original center position. The PefectColor/ PerfecTint settings for other inputs remain unchanged.
A/V Memory Reset (for the single current input)	When audio and/ or video settings for a single input seem incorrect, use A/V Memory Reset to return the input to the original factory settings.	1. While viewing the input to reset, press **MENU** and go to **Picture > Reset**. 2. Press **ENTER** to highlight **Reset**. 3. Press **ENTER** again to reset.	All Audio and Video settings for the individual input are reset except for the global settings for audio Balance, Listen To, Language, Video Mute, Smooth 120.

Service and Customer Support

Service

If you are unable to correct a problem with your TV, consult your Mitsubishi dealer or Mitsubishi Consumer Relations at (800) 332-2119.

- DO NOT adjust any controls other than those described in this Owner's Guide.
- DO NOT remove the protective back cover of your TV.

Customer Support

- To order replacement or additional remote controls or lamp cartridges, visit our website at www.mitsuparts.com or call (800) 553-7278.
- For questions:
  - Call Consumer Relations at 800-332-2119.
  - E-mail: MDEAservice@mdea.com
  - Website: www.mitsubishi-tv.com

Important

All lamps replaced under warranty must be returned to Mitsubishi where they will be inspected to verify failure defects.

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Appendix C: Troubleshooting, continued

Reset Name	When to Use	How to Use	Resulting Action
A/V Reset (for all inputs)	To reset audio and video adjustments for all inputs to the original factory settings.	While viewing the TV, press the control-panel buttons **INPUT** and **VOLUME DOWN** at the same time for at least two seconds.	All Audio and Video settings are returned to the original factory settings, including global settings not affected by ***Picture > Reset***.
Channel Memorization	To erase and re-memorize channels on the **ANT** input.	**1.** Press **MENU** and go to **Setup > Channel**. **2.** Highlight the reception mode, e.g. **Ant Air**, and press **ENTER**. **3.** Highlight **All Channels** and press **ENTER**. **4.** Highlight **Scan**. **5.** Press **ENTER** to start channel memorization.	All previously memorized channels for the antenna input are erased and a new set of memorized channels is created. To add or delete individual channels, see the ***Setup > Channel > Edit*** menu instructions on page 24.
Lock Menu Pass Code	To change your ***Lock*** menu pass code	See the detailed owner's guide at www.mitsubishi-tv.com for instructions.	
Control-Panel Lock Release	To re-enable the control-panel buttons after activation of the Control-Panel Lock	Press and hold the **INPUT** button on the control panel for ten seconds. If the TV is powered off, you can now press the **POWER** button to turn it on.	Allows the control panel to be unlocked if the remote control is misplaced.
System Reset	If the TV does not turn on or off, does not respond to the remote control or control-panel buttons, or has audio but no video.	Press and hold the **POWER** button on the control panel for ten seconds.	The TV will turn off. Power on the TV and the green LED will flash quickly for about one minute. The changes you made most recently, before using **SYSTEM RESET**, may be lost.
TV Reset **IMPORTANT:** Use this reset only if other troubleshooting has been unsuccessful.	To reset all consumer-accessible settings and all memories to the original factory defaults. Use TV Reset if the TV can respond to controls but TV behavior is abnormal. **CAUTION:** All owner-performed setups and adjustments will be erased.	**1.** While viewing the TV, press **MENU** to display the TV main menu. **2.** With the main menu displayed, press number keys **1 2 3** to display the ***Reset*** menu. **3. READ THE ON-SCREEN WARNING AND INSTRUCTIONS.** • If you do not wish to use this reset, press **EXIT** or **MENU** to back out. • If you wish to continue, press **ENTER** to erase all memories and settings.	The TV will start the initialization process and then turn off. Power on the TV and the front green LED will start flashing. All memory and settings outlined in this Owner's Guide will need to be set again.
VUDU Reset VUDU Account Password	You have forgotten your account password.	Using a computer, go to www.VUDU.com.	Reset your account password from the VUDU website (requires access to e-mail).
VUDU Reset Parental Controls Pass code	You have forgotten your pass code.	Call VUDU Customer Care at 1-888-554-VUDU (8838).	VUDU Customer Care will reset your pass code.

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Appendix C: Troubleshooting, continued

Common Picture Problems

	Symptom	Remarks
1.	Picture does not look like a high-definition picture.	Compare the picture to the TV's test picture (***Picture > Picture+ > Test Picture***) to check if the source signal is supplying a lesser-quality image. Not all signals are high-definition signals. To receive high-definition programming from your cable or satellite provider, you must subscribe to the provider's high-definition service. Some over-the-air broadcasts are in high-definition and can be received with a high-quality antenna suited to your location.
2.	TV has sound but no picture.	• Press **MENU** on the remote control. If the menu displays, then there is a problem with the incoming signal. • Check that all video inputs are plugged in firmly to the correct input jacks. • Press and hold the **POWER** button on the control panel for ten seconds to perform System Reset.
3.	Picture has become dimmer.	• The lamp is nearing the end of its life. Order a new lamp. • Adjust picture brightness and contrast to maximum levels. • Change **Lamp Energy** from **Standard** to **Bright**.
4.	A color program appears as a black and white image, or the colors are dim, or the screen is black.	• If using component video, check that the red, green, and blue input cables are correctly connected to the red, green, and blue component video jacks. • If using composite video, check that the incoming cable is connected the TV's green **Y/VIDEO** jack. • 838 Series. The PerfectColor color balance has been incorrectly set. Reset the PerfectColor balance.
5.	Picture from an HDMI input is noisy (poor quality).	• Compare the picture to the TV's test picture (***Picture > Picture+ > Test Picture***) to check if the noise is internal or external to the TV. • Upgrade a Category 1 (unmarked) HDMI cable to a newer type of high-speed HDMI cable.

Home Network

	Symptom	Remarks
1.	I cannot connect the TV to the network.	Go to the ***Setup > Network*** menu. Obtain the TV MAC address and provide it to the router.
2.	I plugged in a wireless USB adapter, but the wireless connection is not working.	The network may be locked. Go to ***Setup > Network***. Highlight the network name and supply the pass code.
3.	The INTERNET key only goes to VUDU.	Normal operation. The TV receives all internet services through VUDU. The TV does not provide full internet access as does a web browser on a computer.

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Mitsubishi TV Software

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c. Labor. For thirty (30) days after the original purchase at retail, we will repair or replace, at our option, the lenticular screen if it proves defective. For certain items that are designed to be replaced by the consumer, including (but not limited to) some Embedded Software, the consumer is solely responsible for any replacement labor. For all other parts, we will provide the labor for a warranty repair by an authorized MITSUBISHI service center without charge for one (1) year from the original date of purchase at retail.

d. Notice. To obtain warranty service, you must notify an authorized MITSUBISHI service center of any defect within the applicable warranty time period.

e. This DLP Projection Television uses a single DLP chip to create the screen image. This technology creates the image using small dots, or picture elements (pixels). Your DLP Projection TV is manufactured to a high level of performance and quality, in fact, 99.99% perfect in the number of properly functioning pixels. As in other display technology, sometimes a pixel is continuously active, inactive or the incorrect color. Our standard is clear; MDEA warrants only that the percentage of properly functioning pixels will be not less than 99.99% of all pixels.

BEFORE REQUESTING SERVICE, please review the instruction booklet to insure proper installation and correct customer control adjustment. If the problem persists please arrange for warranty service.

1. TO OBTAIN WARRANTY SERVICE:

a. Contact your nearest authorized MITSUBISHI service center, whose name and address can be obtained from your MITSUBISHI dealer, by writing at the address provided below, calling MDEA at the 800-332-2119, or by using the support feature of our website at www.Mitsubishi-tv.com.

b. Warranty service will be provided in your home or, if required, at an authorized service shop, provided that your television is located within the geographic territory customarily covered by an authorized MITSUBISHI service center. If not, you must either deliver your television to an authorized service location at your own expense, or pay for any travel and/or transportation costs the service center may charge to and from your home. Actual service labor will be provided without charge.

c. Proof of purchase date from an authorized MITSUBISHI dealer is required when requesting warranty service. Present your sales receipt or other document which establishes proof and date of purchase. THE RETURN OF THE OWNER REGISTRATION CARD IS NOT A CONDITION OF COVERAGE UNDER THIS LIMITED WARRANTY. However, please return the Owner Registration Card so that we can contact you should a question of safety arise which could affect you.

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d. To obtain a replacement lamp, order the lamp directly from the MDEA Parts Department at (800) 553-7278.

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MITSUBISHI ELECTRIC

Website:
www.mitsubishi-tv.com

E-mail:
MDEAservice@mdea.com

Call Consumer Relations for operational or connection assistance at

800-332-2119

To order replacement or additional remote controls, lamp cartridges, or NetCommand IR emitters,

Visit our website www.mitsuparts.com

or call

800-553-7278

SYSTEM RESET

If the TV does not respond to the remote control, control-panel buttons, or will not power on/off, press and hold the **POWER** button on the control panel for ten seconds.

The TV will turn off. Power on the TV and the green LED will flash quickly for about one minute. Recent settings changes may be lost.

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